HackensackUMC Sustainability Program





Presented by Kyle TafuriSustainability Advisor





About HackensackUHN

	HackensackUMC	HackensackUMC Mountainside	HackensackUMC at Pascack Valley	Palisades Healthcare System	Hackensack University Health Network
Team Members	7,587	1,630	609	1,529	11,355
Physicians	1,666	617	452	453	3,188
Medical Residents	170	50	-	65	285
Total Academic Students	160	-	-	249	409
Nursing Students	1,279	120	-	310	1,709
Total Open Research Studies	610	-	-	-	610
Total NIH Grant Amounts	\$783K	-	-	-	\$783K
Licensed Beds	775	347	128	202	1,452
Admissions	44,760	11,208	1,399	9,985	67,352
Inpatient Days	231,216	57,651	4,791	44,717	338,375
Births	6,177	1,332	84	1,555	9,148
Inpatient Surgeries	12,024	2,316	334	1,559	16,233
Outpatient Surgeries	20,360	4,139	227	6,144	30,870
Emergency Visits	112,720	40,025	9,267	39,630	201,642
Outpatient Visits	398,511	103,870	10,239	49,543	562,163
Net Revenue	\$1.43B	\$208.9M	\$28.5M	\$177.9M	\$1.85B

Sustainability

Enhancing environmental practices and initiatives, through a comprehensive sustainable program to ensure a safe, healthy environment for patients, employees, and our community.



2001-2012

- Developed and implemented Greening The Cleaning® program
- Created one of the first Environmental Health Centers in Healthcare
- Launched the Sustainability Committee
- Initiated the first green hospital in the country of its size and scale
 - 97% recycled steel structure
 - Non-PVC hand railing
 - Cotton denim insulation
 - Recycled carpet tiles
 - Natural lighting
 - Organic food options
 - Non-toxic toys
- Rooftop garden where vegetables are used for food
- JTCC- Largest living wall





Environmental Impacts of Hospital

HackensackUMC Environmental Impact:

- > Around \$15 million a year on energy
- > Use over 112,105,555 gallons of water a year
- ➤ Generate around 10 million lbs. of waste a year
- Purchased 107,000 reams of paper (6,446 trees)
- > Over 32,000 surgeries and 112,000 ER Visits
- ➤ Have 3.5 million square feet
- ➤ Over 7,500 employees that drive to and from campus



EPA Memorandum of Understanding February 23, 2012



HackensackUMC intends to continuously improve our programs to reduce waste, minimize the use of hazardous materials, prevent pollution of valuable natural resources, increase recycling, comply with all environmental regulations, and work toward sustainability.



Structure

The Deirdre Imus Environmental Health Center® and Chief of Staff

Information Technology

Compliance

Operations

Facilities-Energy/Waste Water/Food Management

Learning & Performance

Marketing & Communication

Fundraising & Development

Purchasing

Nursing

Medical Staff



CARING EVERY DAY TO TAKE GREEN FURTHER

The Deirdre Imus
Environmental Health
Center® is one of
first hospital-based
environmental health
centers of its kind.









Make A Healthy Choice

GO ON GREEN EVERY DAY

Choosing the right beverage is important to maintaining a healthy diet and staying hydrated and energized. This color-coded system is a guide to help you make a healthy choice every day.

Think before you drink

"Red" beverages contain empty calories with little or no nutritional value and can contribute to weight gain and other chronic diseases.

Examples: Regular soda, energy drinks, sports drinks, pre-sweetened coffee and tea drinks, juice drinks with added sugar

A better choice, on occasion

"Yellow" beverages such as diet and "light" drinks, that are artificially sweetened, may increase taste preferences for sweet foods and drinks, which can contribute to weight gain.

Examples: Diet soda, diet iced tea, low-calorie sports drinks and other low-sugar drinks

Go on green every day

"Green" beverages are the healthiest choices, especially tap water. Water hydrates the body, quenches thirst and supports other bodily functions necessary for overall health.

Examples: Tap or bottled water, seltzer water







Make A Healthy Food Choice

GO ON GREEN EVERY DAY

Choosing the right food and beverage is important to maintaining a healthy diet and staying hydrated and energized. This color-coded system is a guide to help you make a healthy choice every day.

Choose rarely, if at all

"Red" meals and food items are high in calories and saturated fat and offer little to no nutrient value. These foods can contribute to obesity and other chronic diseases such as Type 2 diabetes and heart disease.

Examples: Fried foods, candy, sugary snacks

A better choice, on occasion

"Yellow" meals and food items have moderate amounts of calories and saturated fat content and shold be eaten in moderation.

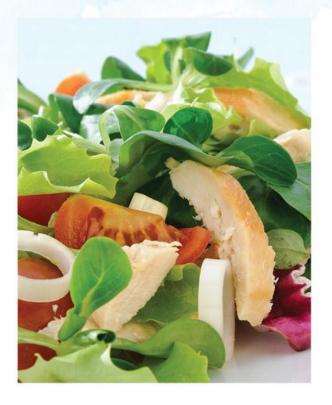
Examples: Processed wheat products (white bread, white rice, pasta), salad dressings and condiments, full-fat dairy products

Go on green every day

"Green" meals and food items are low in calories and saturated fat and offer nutritional benefits for your health. These healthy choices should be consumed on a daily basis.

Examples: Fruits, vegetables, whole grains, lean protein, low-fat dairy products





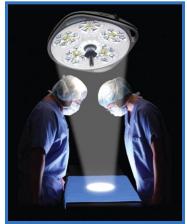


Progress















Team Member Engagement



- Over 225 Members
- Quarterly Meetings
- General Orientation
- President's Newsletter
- Management Meetings







Before















How did we instill behavior change?

- > Round, round and round some more
- > Part of Environment of Care rounds
- Nurse manager meetings
- > Unit based councils
- > Champions
- > Stealth



HackensackUMC Waste Map

Regulated Medical Waste

Blood saturated wastes

Suction canisters with adequate absorbent

Microbiology specimens

Used and unused specimen bags bearing biohazard symbol

IV bags and tubing that contain patient info



Remember: No regular trash No sharps

Sharps

Needles & syringes (includes oral syringes)

Scalpel blades & lancets

Glass pipettes & slides

Broken contaminated glass

Staples & wire IV bag spikes

Blue urine collection cap



Remember: No medications No wrappers No chemo

Batteries

Lithium batteries

NiCad batteries

Alkaline batteries





Remember: No pulse ox

Recycling

Paper (no patient info)

Plastic packaging

Cardboard packaging

Empty glass and plastic bottles

Blue wrap (no blood)

Glove boxes



Remember:
No food
No gloves
No regular trash
No soiled items
No RMW
No patient info

Trash

Food waste

Styrofoam

Wax lined cups

Empty IV bags & tubing (no patient info)

Bed pans

*Gowns
*Gloves
*Masks

*worn but not soiled



Remember: No recyclables No RMW

For more information, contact: GoGreen@hackensackUMC.org

HackensackUMC Waste Map

Trace Chemo

Bulk Chemo

Rx Non **Hazardous**

Rx Rx Sharps

Hazardous

Empty (3% or less) bags, vials, ampoules containing chemo drug

Trace contaminated PPE

Sharps that contain chemo

Bulk (more than 3%) bags, vials, ampoules containing chemo drug

Saturated PPE

Any pharmaceutical NOT marked or coded (BKC) such as:

Partial IVs Unused pills & capsules Partial vials Topical ointments (capped)

Any pharmaceutical that is contained in a Sharp such as: Partial syringes Partial ampoules

Any pharmaceutical marked or coded (BKC) such as:

Partial IVs Unused pills & capsules Partial vials **Topical ointments** (capped)















Remember: No bulk chemo No regular trash

Remember: No trace chemo No RMW

Remember:

No sharps No empty containers No controlled substances

Remember:

No empty sharps No controlled substances

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No sharps No empty containers No controlled substances

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After











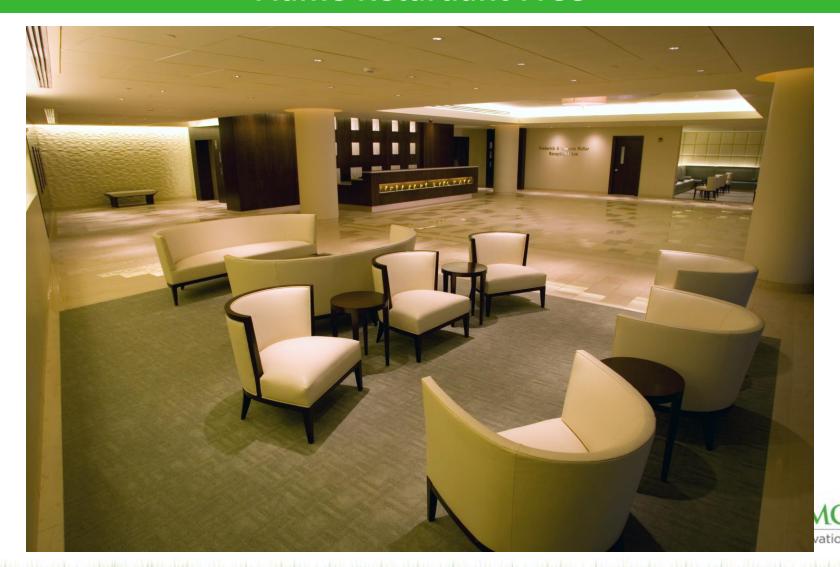
All in the Numbers

Regulated Medical Waste							
Month	Pounds	% of Total					
Jan – 12	128,658	15.54%					
Feb – 12	124,839	15.65%					
Mar – 12	124,030	14.64%					
Apr – 12	115,230	15.46%					
May – 12	101,805	13.25%					
Jun – 12	119,159	14.93%					
Jul – 12	105,766	13.73%					
Aug – 12	115,805	14.61%					
Sep – 12	108,608	15.08%					
Oct – 12	107,140	13.67%					
Nov – 12	103,154	13.54%					
Dec – 12	94,139	12.37%					
Total	1,348,331						

Regulated Medical Waste						
Month	Pounds	% of Total				
Jan – 13	79,402	9.90%				
Feb – 13	73,798	9.50%				
Mar – 13	62,940	7.83%				
Apr – 13	75,726	9.39%				
May – 13	70,997	8.41%				
Jun – 13	60,533	7.88%				
Jul – 13	58,015	7.32%				
Aug – 13	62,180	8.16%				
Sep – 13	59,221	7.79%				
Oct – 13	61,183	7.40%				
Nov – 13	46,835	5.57%				
Dec – 13	49,020	6.75%				
Total	759,850					



Flame Retardant Free



Financial Savings

- ➤ Energy: \$429,628 through PSEG upgrades
- Energy: Utilivisor over \$2,000,000 since 2010
- ➤ Waste Reduction: \$240,000
- Reprocessing: \$1,235,716 since program began in 2010
- ➤ Pigment Free Plastics: \$14,000
- Zero-VOC Paints: \$8,000 (mixing machine donated)
- ➤ Fuel Efficient Vehicles: \$13,000



What we've learned

- > Develop a strong foundation
- ➤ Build into current programs
- Collaborate and share best practices with other institutions
- ➤ Whatever works, go with it!
- ➤ Be willing to change



Challenges

- > Culture
- ➤ Generational differences
- "Green costs more"
- Competing priorites
- Dealing with growth
- ➤ 100% buy in
- **>** Budget



Partnerships























GREEN

DEMOLITIONS.

Recycling Luxury for Recovery

Recognition - 2014





Recognition - 2014

- ➤ HackensackUMC Honored As A National Environmental Leader For Social Stewardship HealthTrust 2014
- ➢ Practice Greenhealth's highest honor: the 2014 Environmental Excellence Award.
- ➤ Hackensack University Medical Center received the 2014 New Jersey Business & Industry Association (NJBIA) Award for Excellence in Environmental Quality.
- ➤ Hackensack University Medical Center, no longer purchasing furniture treated with toxic flame retardant chemicals.



Questions

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